AMENDMENTS TO THE CLAIMS

Please amend the claims as shown below.

1. (Currently Amended) A method for displaying a plurality of measurement data along a borehole trajectory, comprising:

displaying a first layer of a borehole model, wherein the first layer represents a circumferential dimension of a borehole for a plurality of depths along the borehole trajectory; and

displaying a second layer extending radially outward from the first layer, wherein the second layer represents at least one of the plurality of measurement data along the borehole trajectory.

~~displaying a borehole model representing the borehole trajectory; and~~

~~displaying the plurality of measurement data as a plurality of layers overlaying the borehole model, wherein the plurality of measurement data are displayed at measurement depths corresponding to measurement depths of the borehole model~~.

2. (Cancelled)

3. (Currently Amended) The method of claim [[2]] 1, further comprising:

mapping measurement data on ~~a surface~~ at least one selected from a group consisting of the first layer and the second layer of the borehole model.

4. (Currently Amended) The method of claim 1, further comprising:

displaying a third layer, wherein the third layer has a different diameter than the second layer ~~plurality of layers comprises at least two layers displayed with different diameters~~.

5. (Currently Amended) The method of claim 4, wherein the different diameter[[s]] represents a different depth[[s]] of investigation.

6. (Currently Amended) The method of claim 1, wherein the first layer and the second layer are ~~plurality of layers is~~ displayed in differing transparencies ~~different transparency~~.

7. (Currently Amended) The method of claim 6, wherein the differing transparencies are ~~different transparency is~~ set according to a selected function.

8. (Original) The method of claim 7, wherein the selected function is dependent on measurement values in the plurality of measurement data.

9. (Currently Amended) The method of claim 1, further comprising:

displaying a measurement value associated with a cursor location.

10. (Original) The method of claim 9, wherein the cursor location is user selected.

11. (Original) The method of claim 1, wherein the plurality of measurement data comprise well logging data.

12. (Currently Amended) The method of claim 11, wherein the well logging data comprise at least one selected from [[the]] a group consisting of resistivity data, neutron measurement data, gamma ray measurement data, nuclear magnetic resonance data, and acoustic measurement data.

13. (Currently amended) The method of claim 1, further comprising:

selectively displaying a portion of the borehole model and the first layer and the second layer ~~plurality of layers~~ by removing an angular section of the borehole model ~~and the at least one layer~~.

14. (Original) The method of claim 13, wherein the angular section is reference to a user coordinate.

15. (Currently Amended) The method of claim 1, wherein the ~~borehole model and the plurality of layers~~ first layer and the second layer are displayed in a cross-section view.

16. (Currently Amended) The method of claim 1, further comprising:

displaying a plane intercepting the borehole model.

17. (Previously Presented) The method of claim 16, wherein the plane is a dip plane.

18. (Currently Amended) The method of claim 16, further comprising:

adjusting the plane to fit a pattern of measurement values displayed on the first layer and the second layer ~~plurality of layers~~.

19. (Currently Amended) A system for displaying a plurality of measurement data along a borehole trajectory, comprising:

a display;

a computer operatively coupled to the display, the computer having a program ~~to display a borehole model representing the borehole trajectory on the display, the program~~ comprising instructions to enable:

displaying a first layer of a borehole model, wherein the first layer represents a circumferential dimension of a borehole for a plurality of depths along the borehole trajectory; and

displaying a second layer extending radially outward from the first layer, wherein the second layer represents at least one of the plurality of measurement data along the borehole trajectory ~~displaying the plurality of measurement data as a plurality of layers overlaying the borehole model, wherein the plurality of measurement data are displayed at measurement depths corresponding to measurement depths of the borehole model~~.

20. (Cancelled)

21. (Currently Amended) The system of claim [[20]] 19, wherein the program further comprises: ~~comprising~~

instructions to enable mapping measurement data on ~~a surface~~ at least one selected from a group consisting of the first layer and the second layer of the borehole model.

22. (Currently Amended) The system of claim 19, wherein the program further comprises:

instructions to enable displaying a third layer, wherein the third layer has a different diameter than the second layer ~~plurality of layers comprises at least two layers displayed with different diameters~~.

23. (Currently Amended) The system of claim 22, wherein the different diameter[[s]] represents a different depth[[s]] of investigation.

24. (Currently Amended) The system of claim 19, wherein the first layer and the second layer are ~~plurality of layers is~~ displayed in differing transparencies ~~different transparency~~.

25. (Currently Amended) The system of claim 24, wherein the differing transparencies are ~~different transparency is~~ set according to a selected function.

26. (Original) The system of claim 25, wherein the selected function is dependent on measurement values in the plurality of measurement data.

27. (Currently Amended) The system of claim 19, wherein the program further comprises: ~~comprising~~

instructions to enable displaying a measurement value associated with a cursor location.

28. (Original) The system of claim 27, wherein the cursor location is user selected.

29. (Original) The system of claim 19, wherein the plurality of measurement data comprise well logging data.

30. (Currently Amended) The system of claim 29, wherein the well logging data comprise at least one selected from [[the]] a group consisting of resistivity data, neutron measurement data, gamma ray measurement data, nuclear magnetic resonance data, and acoustic measurement data.

31. (Currently amended) The system of claim 19, wherein the program further comprises: ~~comprising~~

instructions to enable selectively displaying a portion of the borehole model and the plurality of layers by removing an angular section of the borehole model ~~and the at least one layer~~.

32. (Original) The system of claim 31, wherein the angular section is reference to a user coordinate.

33. (Currently Amended) The system of claim 19, wherein the first layer and the second layer ~~borehole model and the plurality of layers~~ are displayed in a cross-section view.

34. (Original) The system of claim 19, wherein the program further comprises: ~~comprising~~ instructions to enable displaying a plane intercepting the borehole model.

35. (Original) The system of claim 34, wherein the plane is a dip plane.

36. (Currently Amended) The system of claim 34, wherein the program further comprises ~~comprising~~

instructions to enable adjusting the plane to fit a pattern of measurement values displayed on the first layer and the second layer ~~plurality of layers~~.